AMENDMENT TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1	1.	(Currently Amended) A method of modifying a subscription of a subscriber to a one
2		or more telecommunications service services based on subscriber information and
3		service information that are stored in a directory repository, the method comprising
4		the computer-implemented steps of:
5		determining whether the subscriber is currently logged in, and if the subscriber is not
6		currently logged in, directing the subscriber to log in through an
7	,	authentication server and generating a privilege token associated with the
8		authenticated subscriber by an authorization service;
9		receiving a modification request to modify the subscription of the subscriber to the
10		one or more telecommunications service services;
11		determining, based on privilege information in a privilege token associated with the
12		subscriber that is generated by an the authorization service, whether the
13		subscriber has privileges sufficient to carry out the requested modification;
14		receiving, from the directory repository, first subscriber information and first service
15		information representing only such services for which the subscriber is then
16		currently subscribed;
17		modifying the first subscriber information and first service information to reflect the
18		modification;
19		sending the modified information to the directory repository, resulting in creating and
20		storing, in the directory repository, second service information that reflects the
21		modification;

22	generating an engagement request to engage the telecommunications service for the
23	subscriber in order to fulfill the modification request.
1	2. (Currently Amended) A method as recited in Claim 1, wherein the authorization
2	service generates further comprising the steps of creating and storing the privilege token by
3	the steps of:
4	receiving a user name associated with the subscriber and mapping the user name to a
5	distinguished name in the directory repository;
6	creating and storing in the privilege token, one or more roles occupied by the
7	subscriber based on role information that is stored in the directory repository.
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1	3. (Currently Amended) A method as recited in Claim 1, further comprising wherein the
2	step of determining whether the subscriber is currently logged in comprises determining
3	whether the steps of creating and storing a host object that uniquely identifies the subscriber
4	for the subscriber exists and wherein the host object contains the privilege token
5	corresponding to the subscriber is stored with the host object that uniquely identifies the
6	subscriber.
1	4. (Currently Amended) A method as recited in Claim 1, wherein the step of generating
2	an engagement request further comprising comprises the steps of subscribing the subscriber
3	to the service by creating and storing a relation of a subscriber object that programmatically
4	represents the subscriber to a service object that programmatically represents the service, and
5	creating and storing one or more attribute values in the relation, wherein the attribute values
6	define the subscription.

1	5. (Currently Amended) A method of modifying subscriptions of a group of subscribers			
2	to one or more telecommunications services based on subscriber information and service			
3	information that are stored in a directory repository, the method comprising the computer-			
4	implemented steps of:			
5	receiving from an administrator of the group, a request to modify the subscriptions of			
6	the subscribers to the one or more telecommunications service services;			
7	determining, based on privilege information in a privilege token that is associated			
8	with the administrator and is generated by an authorization service, whether			
9	the administrator has privileges sufficient to carry out the requested			
10	modification;			
11	receiving, from the directory repository, current subscriber information and current			
12	service information representing then-current services to which the			
13	subscribers are subscribed;			
14	modifying the subscriber information and service information to reflect the			
15	modifications, resulting in creating and storing, in the directory repository,			
16	updated service information that reflects the modifications;			
17	generating one or more requests to subscribe the telecommunications service to the			
18	group of subscribers to fulfill the request of the administrator.			
1	6. (Original) A method as recited in Claim 5, wherein the group of subscribers is			
2	defined explicitly by creating and storing a named group that contains one or more			
3	subscribers as group members.			

1	7. (Original) A method as recited in Claim 5, wherein the group of subscribers is
2	defined implicitly such that the group comprises one or more subscribers in an object tree of
3	the directory repository who are subordinate in the tree to a container node of the tree.
1	8. (Original) A method as recited in Claim 5, further comprising the steps of subscribing
2	one of the subscribers in the group to the service by creating and storing a relation of a
3	subscriber object that programmatically represents the subscriber to a service object that
4	programmatically represents the service, and creating and storing one or more attribute
5	values in the relation, wherein the attribute values define the subscription.
1	9. (Currently Amended) A method of automatically logging in a subscriber to a <u>all</u>
2	telecommunications service services subscribed to by the subscriber based on subscriber
3	information and service information that are stored in a directory repository, the method
4	comprising the computer-implemented steps of:
5	receiving a request to from the subscriber to log in to the telecommunications service
6	services;
7	authenticating the subscriber by an authentication server;
8	generating a privilege token associated with the subscriber by an authorization
9	service;
10	performing authentication to determine determining whether the subscriber is allowed
11	to automatically log into the telecommunication service services, said
12	determination based on privilege information in the privilege token associated
13	with the subscriber;
14	if the subscriber is allowed to automatically log into the telecommunications services,

receiving, from the directory repository, a list of all services for which the

15

Ser. No. 09/800,646 filed March 6, 2001, PRASAD et al Examiner: Hector AGDEPPA, GAU 2642 Docket No. 50325-0508

16		subscriber is then currently subscribed, including the telecommunications
17		service; and automatically logging the subscriber into all services identified in
18		the list.
1	10.	(Original) A method as recited in Claim 9, wherein automatically logging the
.2	subsc	riber into all services identified in the list comprises the steps of:
3		for each of the services identified in the list:
4		obtaining service information that describes the services from the directory
5		repository;
6		creating and storing a relation between a service object in the directory repository that
7		uniquely identifies and represents each of the services and privileges of the
8		subscriber, and a subscriber object that uniquely represents the subscriber.
1	11.	(Original) A method as recited in Claim 10, further comprising the steps of storing
2	the pr	ivilege token in a service selection gateway for use in subsequent authorization
3	proce	sses relating to the subscriber.
1	12.	(Cancelled)
1	13.	(Currently Amended) A method of automatically subscribing a subscriber to a
2	teleco	mmunications service based on subscriber information and service information that are
3	stored	l in a directory repository, the method comprising the computer-implemented steps of:
4		receiving a request from the subscriber to obtain a list of available
5		telecommunications services;

U		generating a list of only those telecommunications services for which the subscriber
7		has a privilege to subscribe to, based on privilege information and service
8		information that is stored in the directory repository and associated with the
9		subscriber, said privilege information associated with the subscriber
10		specifying what telecommunications services the subscriber has privileges to
11		subscribe to;
12		receiving a subscriber selection of one of the telecommunications services from the
13		generated list of telecommunications services;
14		verifying that the subscriber has privileges that permit the subscriber to subscribe to
15		the selected telecommunications service;
16		creating and storing updated subscription information in the directory repository;
17		generating a request to subscribe the subscriber to the selected telecommunications
18		service based on the updated subscription information.
1	14.	(Currently Amended) A method as recited in Claim 13, wherein said privilege
2		information associated with the subscriber is comprised further comprising the steps
3		of retrieving a privilege token for the subscriber that identifies a role of the subscriber
4		that maps to one or more privileges of the subscriber, in response to receiving a
5		request to from the subscriber to obtain a list of available telecommunications
6		services, wherein the privileges of the subscriber specify what telecommunications
7		services to which the subscriber is entitled to subscribe to a telecommunications
8		service is determined by the role in the privilege token for the subscriber.
1	15.	(Original) A method as recited in Claim 13, wherein generating a list of only those
2	teleco	ommunications services for which the subscriber has a privilege to subscribe to includes

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4 only those telecommunications services for which the subscriber has a privilege to subscribe.

1	16. (Currently Amended) A computer-readable medium carrying one or more sequences
2	of instructions for modifying a subscription of a subscriber to a one or more
3	telecommunications service services based on subscriber information and service information
4	that are stored in a directory repository, which instructions, when executed by one or more
5	processors, cause the one or more processors to carry out the steps of:
6	determining whether the subscriber is currently logged in, and if the subscriber is not
7	currently logged in, directing the subscriber to log in through an
8	authentication server and generating a privilege token associated with the
9	authenticated subscriber by an authorization service;
10	receiving a modification request to modify the subscription of the subscriber to the
11	one or more telecommunications service services;
12	determining, based on privilege information in a privilege token associated with the
13	subscriber that is generated by an the authorization service, whether the
14	subscriber has privileges sufficient to carry out the requested modification;
15	receiving, from the directory repository, first subscriber information and first service
16	information representing only such services for which the subscriber is then
17	currently subscribed;
18	modifying the first subscriber information and first service information to reflect the
19	modification;
20	sending the modified information to the directory repository, resulting in creating and
21	storing, in the directory repository, second service information that reflects the
22	modification;

23	generating an engagement request to engage the telecommunications service for the
24	subscriber in order to fulfill the modification request.
1	17. (Currently Amended) An apparatus for modifying a subscription of a subscriber to a
2	one or more telecommunications services services based on subscriber information and
3	service information that are stored in a directory repository, comprising:
4	means for determining whether the subscriber is currently logged in, and if the
5	subscriber is not currently logged in, means for directing the subscriber to log
6	in through an authentication server and generating a privilege token associated
7	with the authenticated subscriber by an authorization service;
8	means for receiving a modification request to modify the subscription of the
9	subscriber to the one or more telecommunications service services;
10	means for determining, based on privilege information in a privilege token associated
11	with the subscriber that is generated by an the authorization service, whether
12	the subscriber has privileges sufficient to carry out the requested modification;
13	means for receiving, from the directory repository, first subscriber information and
14	first service information representing only such services for which the
15	subscriber is then currently subscribed;
16	means for modifying the first subscriber information and first service information to
17	reflect the modification;
18	means for sending the modified information to the directory repository, resulting in
19	creating and storing, in the directory repository, second service information
20	that reflects the modification;
21	means for generating an engagement request to engage the telecommunications
22	service for the subscriber in order to fulfill the modification request.

1	18.	(Currently Amended) An apparatus for modifying a subscription of a subscriber to a
2		one or more telecommunications service services based on subscriber information and
3		service information that are stored in a directory repository, comprising:
4		a network interface that is coupled to a data network that includes the directory
5		repository for receiving information therefrom;
6		a processor;
7		one or more stored sequences of instructions which, when executed by the processor,
8		cause the processor to carry out the steps of:
9		determining whether the subscriber is currently logged in, and if the
10		subscriber is not currently logged in, directing the subscriber to log in
11		through an authentication server and generating a privilege token
12		associated with the authenticated subscriber by an authorization
13		service;
14		receiving a modification request to modify the subscription of the subscriber
15		to the one or more telecommunications service services;
16		determining, based on privilege information in a privilege token associated
17		with the subscriber that is generated by an the authorization service,
18		whether the subscriber has privileges sufficient to carry out the
19		requested modification;
20		receiving, from the directory repository, first subscriber information and first
21		service information representing only such services for which the
22		subscriber is then currently subscribed;
23		modifying the first subscriber information and first service information to
24		reflect the modification;

AMENDMENT

Ser. No. 09/800,646 filed March 6, 2001, PRASAD et al

Examiner: Hector AGDEPPA, GAU 2642

Docket No. 50325-0508

25	sending the modified information to the directory repository, resulting in
26	creating and storing, in the directory repository, second service
27	information that reflects the modification;
28	generating an engagement request to engage the telecommunications service
29	for the subscriber in order to fulfill the modification request.
1	19. (Original) A method of modifying a subscription of a subscriber to a
2	telecommunications service based on information stored in a directory repository, the method
3	comprising the computer-implemented steps of:
4	receiving a request to identify one or more services to which a subscriber is
5	subscribed, based on a prior request to modify the subscription of the
6	subscriber to the telecommunications service;
7	generating a list of the one or more services to which the subscriber is currently
8	subscribed, based on group membership of the subscriber, one or more roles
9	occupied by the subscriber, and authorization information associated with the
10	subscriber that is stored in the directory repository;
11	generating individual service information for each of the one or more services in the
12	list, based on subscriber information and service information that is stored in
13	the directory repository, for use in automatically subscribing the subscriber to
14	a service that is represented by the individual service information.
1	20. (Original) A computer-readable medium carrying one or more sequences of
2	instructions for modifying a subscription of a subscriber to a telecommunications service
3	based on subscriber information and service information that are stored in a directory

4	repository, which instructions, when executed by one of more processors, cause the one of
5	more processors to carry out the steps of:
6	receiving a request to identify one or more services to which a subscriber is
7	subscribed, based on a prior request to modify the subscription of the
8	subscriber to the telecommunications service;
9	generating a list of the one or more services to which the subscriber is currently
10	subscribed, based on group membership of the subscriber, one or more roles
11	occupied by the subscriber, and authorization information associated with the
12	subscriber that is stored in the directory repository;
13	generating individual service information for each of the one or more services in the
14	list, based on subscriber information and service information that is stored in
15	the directory repository, for use in automatically subscribing the subscriber to
16	a service that is represented by the individual service information.
1	21. (Original) An apparatus for modifying a subscription of a subscriber to a
2	telecommunications service based on subscriber information and service information that are
3	stored in a directory repository, comprising:
4	means for receiving a request to identify one or more services to which a subscriber is
5	subscribed, based on a prior request to modify the subscription of the
6	subscriber to the telecommunications service;
7	means for generating a list of the one or more services to which the subscriber is
8	currently subscribed, based on group membership of the subscriber, one or
9	more roles occupied by the subscriber, and authorization information
10	associated with the subscriber that is stored in the directory repository;

AMENDMENT

Ser. No. 09/800,646 filed March 6, 2001, PRASAD et al Examiner: Hector AGDEPPA, GAU 2642

Docket	No.	5032	5-0	50	8
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11	means for generating individual service information for each of the one or more
12	services in the list, based on subscriber information and service information
13	that is stored in the directory repository, for use in automatically subscribing
14	the subscriber to a service that is represented by the individual service
15	information.
1	22. (Original) An apparatus for modifying a subscription of a subscriber to a
2	telecommunications service based on subscriber information and service information that are
3	stored in a directory repository, comprising:
4	a directory-enabled service selection framework that is coupled to the directory
5	repository for receiving stored information therefrom;
6	a processor;
7	one or more stored sequences of instructions in the framework which, when executed
8	by the processor, cause the processor to carry out the steps of:
9	receiving a request to identify one or more services to which a subscriber is
10	subscribed, based on a prior request to modify the subscription of the
11	subscriber to the telecommunications service;
12	generating a list of the one or more services to which the subscriber is
13	currently subscribed, based on group membership of the subscriber,
14	one or more roles occupied by the subscriber, and authorization
15	information associated with the subscriber that is stored in the
16	directory repository;
17	generating individual service information for each of the one or more services
18	in the list, based on subscriber information and service information
19	that is stored in the directory repository, for use in automatically

AMENDMENT Ser. No. 09/800,646 filed March 6, 2001, PRASAD et al Examiner: Hector AGDEPPA, GAU 2642 Docket No. 50325-0508

20	subscribing the subscriber to a service that is represented by	y the
21	individual service information.	s.